

C3 Series - C350/C357 Data Sheet





- 50.8mm/ 2in LCD display with RGB backlight
- RGB backlight to make check weighing easy.
- Wide DC operation (5-24V) ideal for onboard vehicle applications.
- C350 Resin alloy full housing IP66, IP68 and NEMA 4
- C357 Stainless steel full housing IP66, IP68, IP69K and NEMA 4X
- NTEP/ OIML/ NMI/ approved

The C350 resin alloy full housing indicator and C357 stainless steel full housing indicators are the latest versions of Rinstrum's C300 series. These features a 50.8mm/ 2" LCD display with RGB backlight together with flush polyester overlay with mechanical keys. These are fully sealed and have durable chemical resistance. Custom printing, accumulation and latching set points are some of the available features amongst the various firmware applications.

C350 and C357 are built with two RS232 bidirectional serial ports independently configurable for network, printing, or remote display functions and two accessory card slots for increased functionality. The communication cards offer increased options and expansion cards cover additional functions.

- 50.8mm (2in) LCD display with RGB backlight: to improve visibility and readability of the weight display and RGB backlight for easy check weighing applications.
- Wide DC operation (5-24V): to suit a variety of onboard vehicle and industrial applications.
- Two RS232 bidirectional serial ports: independently configurable for network, printing or remote display functions.
- Inputs and Outputs: Four digital inputs and four high-side digital outputs that are electrically isolated. Outputs are capable of driving low voltage DC actuators directly
- Onboard data storage: compliant to WELMEC 7.2 (alibi memory DSD)
- rinLINK: magnetically coupled link on front fascia for easy access in situ for updates/setup of the indicator, saving the installer time and effort.
- **Flush polyester overlay with mechanical keys:** no membrane key to wear out, easy to keep clean, fully sealed, durable chemical resistance, improves uv resistance.
- Printing: Multiple standard print dockets through to fully programmable print formats that can be easily created with the drag and drop configuration tool rinPRINT.

Advanced Setpoints

The C3 instrument supports up to 8 setpoints with 4 Inputs & 4 Outputs directly linked to the setpoints mapping. Setpoint status can be used to drive the onboard outputs directly, sound the buzzer, change display backlight colour or can be transferred to external control systems using modbus RTU or through field bus expansion. Setpoint functions include:

- Weigh-in/Weigh-out filling
- CHECKWEIGH: OVER, UNDER, PASS
- Status (motion, zero, net)

Setpoint outputs can be latched and reset from remote inputs or external control.



Accessory Cards

Optional accessory cards can be connected using the Accessory port to add more functionality to the C320 indicator.

Communication cards

- C3 Series RS232 Communications card M6201
- C3 Series RS485 Communications card M6203
- C3 Series 20 mA Current Loop Communications card M6204

Expansion Cards

- C3 Analogue Output card - M6401 (K306 only)

Accessory card

- C3 Series Converter 0-10V/4-20mA Input (M4902)



Smart Weighing

Large LCD display (50.8mm/ 2") with RGB backlight of the C350/C357 indicator improve visibility and readability of the weight display.

The C350/C357's bright, vivid backlight changes color automatically as the preassigned target weights are reached.

The operator knows immediately when they've reached the acceptable weight range based on the orange, green, or red color changes for UNDER, ACCEPT, or OVER weights.

... now that's smart weighing!



Specifications

			General					
Trade Approval		NTEP 23-090 / NMI S869 / OIML R76-1 (2006)						
Resolution		Up to 100,000 divisions, minimum of 0.1uV/division						
		Trade: Up to 10,000 divisions, minimum of 0.33uV/division						
Zero Cancellation		± 2.0mV/V						
Span Adjustment		0.1mV/V to 5.0mV/V full scale						
Excitation		5V for up to 8 x 350-ohm load cells (4-wire or 6-wire plus shield)						
		Max total load cell resistance: 3,500 Ω						
A/D Type		24bit Sigma Delta with 8,388,608 internal counts, 50 updates/second						
Operating Environment		Temperature: –10° to +50°C ambient (14° to 122° F), Humidity: <90% non-condensing						
Setup and Calibration		Fully digital with visual prompting in plain messages						
Digital Filter		IIR low pass filter						
Zero Range		Selectable from ± 2% to ± 100% Full Scale						
Standard Power Input		5 to 24VDC (2.5 VA max)						
		ON/OFF key with memory feature						
Optical Data Co	mmunications	rinLINK - magnetically coupled infra-red communications						
,		Conversion cables available for USB						
Keys US Region		Power/ Zero/ Tare/ Select/ Units Switching (lb/ kg/ oz/ g/ t/ TN/ lb:oz/custom) plus two assignable						
		function keys						
Keys ROW Region		Power/ Zero/ Tare/ Select plus three assignable function keys						
			Accessory Cards					
Communications cards		RS485, RS232, Current loop						
Expansion Cards (K306 Only)		0-10V, 4-20mA, isolated 16 bit analogue output						
		C320			350	C357		
Display		RGB Backlit LCD with six 20mm (0.8") high digits RGB Bac						
		with units and annunciators, 9 segment		units and annunciators, 9 segment				
Case Materials		Resin	-		Alloy	Stainless Steel		
		C320-A	C320-G	С320-Н	C350	C357		
	_			Wired cable	Cable gland	I		
AC 110-240 VAC	C	Optional plug pack	-	gland with	with AC line	Potted AC Line Cord		
	<u> </u>		Daniel as a sate a with	plug pack	cord			
DC	5-24 VDC	Rear connector	Barrel connector with	-	Cable gland without cord	3 pin LTW connector		
	Battery	4 x AA battery option	plug pack 4 x AA batteries		without cord	_		
	Dattel y	IP65 when panel	4 x AA Dattelles	IP55 full	- IP66, IP68,	- IP66, IP68, IP69K, NEMA		
IP Rating		mounted	-	housing	NEMA4	4X		
Packing Weights		0.25kg/ 9oz	0.42kg/ 14.8oz		3.8kg/ 8.4lbs	5.5kg/ 12.1lbs		
racking weights		U.23Kg/ 3U2	U.42Kg/ 14.80Z		J.0Kg/ 0.4IDS	J.JKE/ 12.1103		

Specifications may change at any time without notice.

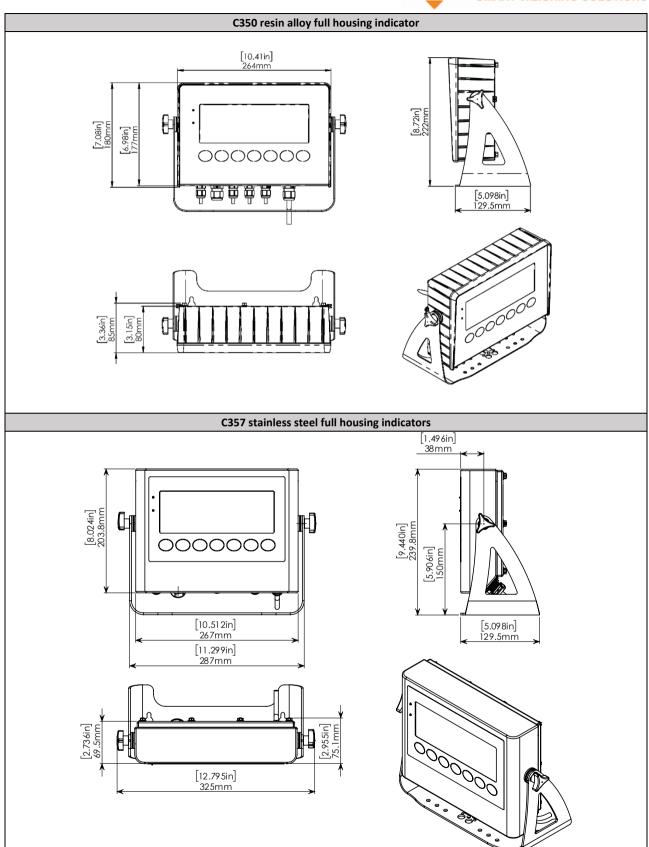


Firmware Variants

Firmware Version	Standalone	All round	Advanced	
Firmware version	(K301)	(K304)	(K306)	
Hold	Manual	+Peak	+Peak	
Counting Counting	-	S	S	
Counting Auto Tare Totalising Display Test	-	S	S	
Totalising Totalising	-	S	S	
Display Test	S	S	S	
High Res (x10)	S	S	S	
Quick Calibration	S	S	S	
Units Switching lb/ kg/ oz/ g / t/ TN/ lb:oz/custom	S	S	S	
(switching between up to three units plus counting)	3	3	3	
Multiple Tare (enhanced)	S	S	S	
Medical hold	-	S	S	
Multi color backlight	-	S	S	
QA Date	-	S	S	
mV/V Calibration	-	S	S	
Clock Calendar	-	S	S	
Remote Inputs	-	2	2	
Isolated Outputs	-	2	2	
Custom AUTO/SINGLE Output	S	S	S	
Ring Network rinCMD	Α	S	S	
SIMPLE Network emulation	-	S	S	
Printing	-	Programmable		
RS232 onboard	-	2	2	
Extra Serial Port(%) – Card (#) RS232, RS485, 20mA LOOP	А	Α	А	
Livestock Weighing	S	S	S	
Gravity Compensation	S	S	S	
Linearisation	S	S	S	
Mimic Mode	-	S	S	
Check Weighing (RGB Backlight)	-	S	S	
Set Points	-	Basic (8)	Adv (8)	
Analogue Output Card	-	-	Α	
Alibi WELMEC 7.2 (DSD)	-	S	S	
Programmable DSD CSV Log (#)	-	-	S	
Bluetooth/WIFI (*)	Α	Α	Α	
Li-ion battery (*)	А	Α	Α	

- **S** Standard Accessory
- A Optional Accessory
- (*) Accessory under development
- (#) Readable via the registers
- (%) Can be used to extend the capability of K301 Firmware with added comms





Specifications are subject to variation for improvement without notice. Illustrations are indications only and variation may be evident between products.